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INDEX TO AMERICAN BOTANICAL LITERATURE 1912-1915

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Anastasia, G. E. *Araldica nicotinae*. Boll. Tecnico Coltiv. Tabac.

13: 51-220. *pl.* 1-82. Au 1914. [Illust.]

An appendix to this number containing 60 plates additional, variously labeled A-Z, issued separately S 1914.

Appel, O. Disease resistance in plants. Science II. 41: 773-782. 28 My 1915.

Appel, O. The relations between scientific botany and phytopathology. Ann. Missouri Bot. Gard. 2: 275-285. 17 My 1915.

Atkinson, G. F. Phylogeny and relationships in the Ascomycetes. Ann. Missouri Bot. Gard. 2: 315-376. *f.* 1-10. 17 My 1915.

Bailey, L. H. The Standard Cyclopedia of Horticulture. 3: 1201-1760. *pl.* 40-60 + *f.* 1471-2047. New York. 12 My 1915.

Belling, J. Inheritance of pod pubescence and partial sterility in *Stizolobium* crosses. Rep. Florida Agr. Exp. Sta. 1914: lxxxi-cv. *f.* 1-9. Ap 1915.

Benedict, R. C., and others. Where *Ophioglossum* grows (A multiple report). Am. Fern Jour. 5: 42-50. My 1915.

Bessey, C. E. The phylogenetic taxonomy of flowering plants. Ann. Missouri Bot. Gard. 2: 109-164. *f.* 1. 17 My 1915.

Blake, S. F. An *Atriplex* new to North America. Rhodora 17: 83-86. *f.* 1, 2. 28 Ap 1915.

- Britton, N. L.** The vegetation of Mona Island. Ann. Missouri Bot. Gard. **2**: 33-58. *pl.* 1, 2. 17 My 1915.
Includes *Pedilanthus latifolius* Millsp. & Britton, *Tabebuia lucida*, *Riccia Brittonii* Howe, and *Riccia violacea* Howe, spp. nov.
- Cameron, F. K.** Potash from kelp. U. S. Dept. Agr. Soils Rep. 100: 1-122. *pl.* 1-40 + *f.* 1 + *maps* A—G, 1-61. 10 Ap 1915.
Includes chapters by Crandall, Rigg, and Frye here indexed separately.
- Chrysler, M. A.** The medullary rays of *Cedrus*. Bot. Gaz. **59**: 387-396. *f.* 1-7. 15 My 1915.
- Collins, F. S.** Some algae from the Chincha Islands. Rhodora **17**: 89-96. My 1915.
- Condit, I. J.** The Loquat. Calif. Agr. Exp. Sta. Bull. 250: 251-284. *f.* 1-11. Mr 1915.
- Conzatti, C.** The botanical garden of Oaxaca. Ann. Missouri Bot. Gard. **2**: 165-174. *pl.* 3 + *f.* 1, 2. 17 My 1915.
- Coulter, J. M.** The origin of monocotyledony. II. Monocotyledony in grasses. Ann. Missouri Bot. Gard. **2**: 175-183. *f.* 1-9. 17 My 1915.
- Crandall, W. C.** The kelp beds from Lower California to Puget Sound. U. S. Dept. Agr. Soils Rep. 100: 33-49. 10 Ap 1915.
- Czapek, F.** Recent investigations on the protoplasm of plant cells and its colloidal properties. Ann. Missouri Bot. Gard. **2**: 241-152. 17 My 1915.
- Davis, W. T.** Union of an oak and a birch. Proc. Staten Island Assoc. Arts and Sci. **5**: 10. *pl.* 1 + *f.* 1. 24 Ap 1915.
- Dorsey, M. J.** Pollen development in *Vitis* with special reference to sterility. Minnesota Agr. Exp. Sta. Bull. 144: 1-60. *pl.* 1-4. S 1914.
- Dorsey, M. J.** Pollen sterility in grapes. Jour. Heredity **6**: 243-249. *f.* 1-6. 25 My 1915.
- Edson, H. A.** Seedling diseases of sugar beets and their relation to root-rot and crown-rot. Jour. Agr. Research **4**: 135-168. *pl.* 16-26. 15 My 1915.
- Eriksson, J.** The control of plant diseases in Sweden. Bull. Foreign Agr. Intelligence **5**: 187-192. Mr 1915.
- Evans, A. W.** The genus *Plagiochasma* and its North American species. Bull. Torrey Club **42**: 259-308. *f.* 1-8. 22 My 1915.
Includes *Plagiochasma Landii* sp. nov.
- Fairchild, D.** Green leaf in a cherry blossom. Jour. Heredity **6**: 262, 263. *f.* 7. 25 My 1915.

- Farwell, O. A.** Notes on the Michigan species of *Polygonatum*. Bull. Torrey Club **42**: 247-258. *pl.* 12-18. 22 My 1915.
Includes *Polygonatum ellipticum* sp. nov. and several new varieties and combinations.
- Fernald, M. L.** Altitudinal limits in Connecticut, a correction. Rhodora **17**: 88. 28 Ap 1915.
- Fernald, M. L.** *Botrychium angustisegmentum* (Pease and Moore), n. comb. *B. lanceolatum* var. *angustisegmentum* Pease and Moore. Rhodora **17**: 87, 88. 28 Ap. 1915.
- Fernald, M. L.** Two variations of *Silene antirrhina*. Rhodora **17**: 96, 97. My 1915.
- Frye, T. C.** The kelp beds of southeast Alaska. U. S. Dept. Agr. Soils Rep. 100: 60-104. 10 Ap 1915.
- Gable, C. H.** The wild tomato. Jour. Heredity **6**: 242. *frontispiece*. 25 My 1915. [Illustr.]
- Gates, R. R.** On the origin and behavior of *Oenothera rubricalyx*. Jour. Genetics **4**: 353-360. Ap 1915.
- Giddings, N. J., & Berg, A.** Apple rust or cedar rust in West Virginia. W. Virginia Agr. Exp. Sta. Circ. 15: 1-16. Mr 1915. [Illustr.]
- Goodspeed, T. H.** Quantitative studies of inheritance in *Nicotiana* hybrids. II. Univ. Calif. Publ. Bot. **5**: 223-231. 21 Ap 1915.
- Harms, H.** Über einige von P. Preuss gesammelte Arten der Gattung *Inga* Scop. Repert. Sp. Nov. **13**: 419, 420. 31 D 1915.
- Hieronymus, G.** Eine neue *Selaginella* (*S. Herteri*) aus Uruguay. Repert. Sp. Nov. **13**: 421, 422. 31 D 1914.
- Hill, A. W.** The history and functions of botanic gardens. Ann. Missouri Bot. Gard. **2**: 185-240. *pl.* 6-12 + *f.* 1. 17 My 1915.
- Hoehne, F. C.** Plantae novae brasilianae. I. Repert. Sp. Nov. **13**: 423-438. 31 D 1914.
("Ex. comm. Linh. Telegr. Estrat. de Matto Grosso ao Amazonas. Anexo no. 5. Botanica Parte I. Dec. 1910, 71 pp., 63 tab.")
- Hollick, A.** Union of an oak and a beech. Proc. Staten Island Assoc. Arts and Sci. **5**: 11, 12. *pl.* 1 + *f.* 2. 24 Ap 1915.
- Hopkins, L. S.** An interesting specimen of the fragrant shield fern. Am. Fern Jour. **5**: 41, 42. *pl.* 2. My 1915.
- Horne, W. T.** Oak fungus or *Armillaria mellea* in connection with nursery stock. Monthly Bull. Calif. State Comm. Hort. **4**: 179-184. *f.* 31-33. Ap 1915.
- Howe, I. A.** New botanical finds for St. Johnsbury and vicinity. Vermont Bot. and Bird Bull. **1**: 33, 34. Ap 1915.

- Hubbard, F. T.** *Mibora minima* (L.) Desv. at Plymouth, Massachusetts. *Rhodora* **17**: 97. My 1915.
- Hubbard, F. T.** A taxonomic study of *Setaria italica* and its immediate allies. *Am. Jour. Bot.* **2**: 169-198. 13 My 1915.
- Jennings, O. E.** Notes on the Pteridophytes of northwestern Ontario. *Am. Fern Jour.* **5**: 33-39. My 1915.
- Kinman, C. F.** *Citrus* fertilization experiments in Porto Rico. *Porto Rico Agr. Exp. Sta. Bull.* **18**: 5-33. *pl. 1, 2.* 14 My 1915.
- Land, W. J. G.** Microtechnical methods. *Bot. Gaz.* **59**: 397-401. 15 My 1915.
- Lipman, C. B., & Sharp, L. T.** Effect of moisture content of a sandy soil on its nitrogen fixing power. *Bot. Gaz.* **59**: 402-406. 15 My 1915.
- Loeb, J.** The stimulation of growth. *Science* **41**: 704-715. 14 My 1915.
- Lorenz, A.** Additions to the Vermont hepatic list for 1914. *Vermont Bot. and Bird Bull.* **1**: 28, 29. Ap 1915.
- Lorenz, A.** New Vermont Hepaticae in 1913. *Vermont Bot. and Bird Bull.* **1**: 29, 30. Ap 1915.
- Lutman, B. F.** Plant quarantine laws. *Vermont Bot. and Bird Bull.* **1**: 18, 19. Ap 1915.
- MacDougal, D. T.** The experimental modification of germ-plasm. *Ann. Missouri Bot. Gard.* **2**: 253-274. *f. 1-4.* 17 My 1915.
- Maxon, W. R.** Note upon *Polypodium subtile* and a related species. *Am. Fern Jour.* **5**: 50-52. My 1915.
- Maxon, W. R.** Report upon a collection of ferns from western South America. *Smithsonian Misc. Coll.* **65**: 1-12. 3 My 1915.
Includes *Polypodium mollendense*, *Cheilanthes ornaticissima*, *C. incarum*, *Notholaena Brackenridgei*, *N. arequipensis*, and *Dryopteris Rosei*, spp. nov.
- Meyer, R.** *Echinopsis cinnabarina* Lab. *Monats. Kakteenk.* **25**: 20-23. Mr 1915.
- Meyer, R.** *Echinopsis Meyeri* Heese. *Monats. Kakteenk.* **24**: 178, 179. 15 D 1914.
- Meyer, R.** Einiges über den *Echinocactus Grusonii* Hildm. *Monats. Kakteenk.* **25**: 15, 16. F 1915.
- Miller, W. H.** Tree fruits and flowers. *Am. Forestry* **21**: 617-625. My 1915. [Illust.]
- Newman, O. W.** Russian thistle. *Salsola kali* L. var. *tenuifolia* G. W. F. May. *Monthly Bull. Calif. State Comm. Hort.* **4**: 193-196. *f. 34.* Ap 1915.

- Osterhout, W. J. V.** Antagonism between acids and salts. Jour. Biol. Chem. **19**: 517-520. 1914.
- Osterhout, W. J. V.** The effect of acid on permeability. Jour. Biol. Chem. **19**: 493-501. *f. 1-3^a*. 1914.
- Osterhout, W. J. V.** The effect of alkali on permeability. Jour. Biol. Chem. **19**: 335-343. *f. 1-4*. 1914.
- Oswald, L. W., & Boss, A.** Minnesota weeds—II. Minnesota Agr. Exp. Sta. Bull. 139: 1-47. *f. 1-25*. My 1914.
- Pammel, L. H.** Introduced plants of the Clear Creek Canon, Colorado. Proc. Iowa Acad. Sci. **21**: 119-121. *pl. 15, 16*. 1914.
- Perry, F. E.** The inheritance of size in tomatoes. Ohio Nat. **15**: 473-495. *pl. 22-24 + f. 1, 2*. Ap 1915.
- Petry, L. C.** Branching in the Ophioglossaceae. Bot. Gaz. **59**: 345-365. *pl. 20, 21 + f. 1-6*. 15 My 1915.
- Pierce, R. G.** The present status of the chestnut bark disease in Massachusetts. Arborea **1**: 8, 9. My 1914.
- Pool, V. W., & McKay, M. B.** *Phoma betae* on the leaves of the sugar beet. Jour. Agr. Research **4**: 169-177. *pl. 27*. 15 My 1915.
- [**Popenoe, P.**] Development of a cherry. Jour. Heredity **6**: 278, 279. *f. 8, 9*. 25 My 1915.
- Redles, G.** Some experiences in fern-hunting near Philadelphia. Am. Fern Jour. **5**: 52-54. My 1915.
- Reed, G. B.** Evidence for the general distribution of oxidases in plants. Bot. Gaz. **59**: 407-409. 15 My 1915.
- Reed, H. S., & Grissom, J. T.** The development of alkalinity in *Glomerella* cultures. Jour. Biol. Chem. **21**: 159-163. My 1915.
- Rigg, G. B.** The kelp beds of Puget Sound. U. S. Dept. Agr. Soils Rep. 100: 50-59. *f. 2*. 10 Ap 1915.
- Rigg, G. B.** The kelp beds of western Alaska. U. S. Dept. Agr. Soils Rep. 100: 105-122. 10 Ap 1915.
- Schlechter, R.** Asclepiadaceae novae bolivienses Herzogianae. Repert. Sp. Nov. **13**: 438-443. 31 D 1914.
Includes eleven new species and one new genus (*Corollonema*).
- Seely, H. M.** Why does the gilliflower apple fail to protect its seed? Vermont Bot. and Bird Club Bull. **1**: 13-15. Ap 1915.
- Setchell, W. A.** The law of temperature connected with the distribution of the marine algae. Ann. Missouri Bot. Gard. **2**: 287-305. 17 My 1915.

- Shapovalov, M.** Effect of temperature on germination and growth of the common potato-scab organism. Jour. Agr. Research **4**: 129-133. *pl.* 15 + *f.* 1. 15 My 1915.
- Shive, J. W.** A three-salt nutrient solution for plants. Am. Jour. Bot. **2**: 157-160. 13 My 1915.
- Skottsberg, C.** Notes on Pacific coast algae. I. *Pylaiella postelsiae* n. sp., a new type in the genus *Pylaiella*. Univ. Calif. Publ. Bot. **6**: 153-164. *pl.* 17-19. 7 My 1915.
- Smith, E. F.** A conspectus of bacterial diseases of plants. Ann. Missouri Bot. Gard. **2**: 377-401. 17 My 1915.
- Spaulding, P.** Forest fungi of Bethel. Vermont Bot. and Bird Bull. **1**: 24, 25. Ap 1915.
- Spoehr, H. A.** Variations in respiratory activity in relation to sunlight. Bot. Gaz. **59**: 366-386. *f.* 1-10. 15 My 1915.
- Stewart, F. C., & Sirrinc, F. A.** The spindling-sprout disease of potatoes. N. Y. Agr. Exp. Sta. Bull. 399: 133-143. *pl.* 1-3. Mr 1915.
- St. John, H.** *Elymus arenarius* and its American representatives. Rhodora **17**: 98-103. My 1915.
Includes *Elymus strigatus* sp. nov.
- St. John, H.** *Rumex persicarioides* and its allies in North America. Rhodora **17**: 73-83. *pl.* 113. 28 Ap 1915.
- Stone, G. E.** The pin oak (*Quercus palustris* Muench.). Arborea **1**: 28, 29. Au 1914. [Illust.]
- Stuart, W.** Potato breeding and selection. U. S. Dept. Agr. Bull. 195: 1-35. *pl.* 1-16. 20 My 1915.
- Studhalter, R. A., & Heald, F. D.** The persistence of viable pycnospores of the chestnut blight fungus on normal bark below lesions. Am. Jour. Bot. **2**: 162-168. 13 My 1915.
- Thompson, W. P.** Preliminary note on the morphology of *Gnetum*. Am. Jour. Bot. **2**: 161. 13 My 1915.
- Townsend, C. O.** Field studies of the crown-gall of sugar beets. U. S. Dept. Agr. Bull. 203: 1-8. *pl.* 1, 2 + *f.* 1. 30 Ap 1915.
- Urban, I.** Sertum antillanum. I. Repert. Sp. Nov. **13**: 444-459. 31 D 1914.
Includes new species in *Piper* (1), *Phoradendrum* (1), *Coccoloba* (4), *Portulaca* (1), *Magnolia* (1), *Phyllanthus* (7), *Croton* (6), and *Rhamnidium* (1).
- Vaupel, F.** Peruanische Kakteen. Monats. Kakteenk. **24**: 154-157. 15 N 1914; **24**: 161-177. 15 D 1914. [Illust.]